# The Journal of Parasitology

*The Official Organ of the American Society of Parasitologists*

Founded by HENRY BALDWIN WARD

VOLUME XX
1934

EDITORIAL BOARD

JAMES E. ACKERT
*Kansas State College*
FRED C. BISHOPP
*U. S. Bureau of Entomology*
ASA C. CHANDLER
*Rice Institute*
CHARLES F. CRAIG
*Tulane University*
MAURICE C. HALL
*U. S. Bureau of Animal Industry*
CHARLES A. KOFOID
*University of California*
GEORGE R. LA RUE
*University of Michigan*
WILLIAM A. RILEY
*University of Minnesota*
RICHARD P. STRONG
*Harvard University*
WILLIAM H. TALIAFERRO
*University of Chicago*
HENRY B. WARD
*University of Illinois*
DAVID H. WENRICH
*University of Pennsylvania*

Editorial Committee

WILLIAM W. CORT, Chairman
ROBERT W. HEGNER
FRANCIS M. ROOT
*Johns Hopkins University*

# CONTENTS OF VOLUME XX

## SEPTEMBER, 1933, NUMBER 1.


WALTON, A. C. THE NEMATODA AS PARASITES OF AMPHIBIA ..... 1

GLASER, R. W. AND N. A. CORIA. THE CULTURE OF *Paramoecium caudatum* FREE FROM LIVING MICROORGANISMS ..... 33

NOLF, L. O. AND W. W. CORT. ON IMMUNITY REACTIONS OF SNAILS TO THE PENETRATION OF THE CERCARIAE OF THE STRIGEID TREMATODE, *Cotylurus flabelliformis* (FAUST) ..... 38

KRULL, WENDELL H. NEW SNAIL AND RABBIT HOSTS FOR *Fasciola hepatica* LINN. ..... 49

EWING, H. E. A NEW PIT-PRODUCING MITE FROM THE SCALES OF A SOUTH AMERICAN SNAKE ..... 53

RESEARCH NOTES ..... 57

REVIEWS AND NOTES ..... 59

PROCEEDINGS OF THE HELMINTHOLOGICAL SOCIETY OF WASHINGTON ..... 62


## DECEMBER, 1933, NUMBER 2.


COBB, MARGARET V. N. A. COBB: NEW NEMIC GENERA AND SPECIES, WITH TAXONOMIC NOTES ..... 81

IN MEMORIAM.

FRIEDRICH FÜLLEBORN ..... 95

NELSON CARYL DAVIS ..... 95

PROCEEDINGS OF THE HELMINTHOLOGICAL SOCIETY OF WASHINGTON ..... 97

PROGRAM AND ABSTRACTS OF THE NINTH ANNUAL MEETING OF THE AMERICAN SOCIETY OF PARASITOLOGISTS ..... 115


## MARCH, 1934, NUMBER 3.


WILLIAM HAY TALIAFERRO ..... Frontispiece

TALIAFERRO, WILLIAM H. SOME CELLULAR BASES FOR IMMUNE REACTIONS IN PARASITIC INFECTIONS ..... 149

HULL, J. B., W. E. DOVE, AND F. M. PRINCE. SEASONAL INCIDENCE AND CONCENTRATIONS OF SAND FLY LARVAE, *Culicoides dovei* HALL, IN SALT MARSHES (CERATOPOGONINAE: DIPTERA) ..... 162

KRULL, WENDELL H. LIFE HISTORY STUDIES ON *Cotylophoron cotylophorum* (FISCHOEDER, 1901) STILES AND GOLDBERGER, 1910 ..... 173

MEGGITT, F. J. ON SOME TAPEWORMS FROM THE BULL-SNAKE (*Pityopis sayi*), WITH REMARKS ON THE SPECIES OF THE GENUS *Oochoristica* (CESTODA) ..... 181

BRANNON, C. H. OBSERVATIONS ON THE BLOW-FLY *Lucilia sericata* MEIG... 190

BECKER, ELERY R. A CHECK-LIST OF THE COCCIDIA OF THE GENUS *Isospora*. 195

KNIPLING, E. F. OBSERVATIONS ON FIRST-STAGE LARVAE OF *Gasterophilus intestinalis* IN TONGUES OF HORSES IN CENTRAL IOWA DURING DECEMBER, 1932, AND JANUARY, 1933 ..... 196

ROZEBOOM, L. E. AND K. S. SHAH. PRELIMINARY STUDIES ON THE PRODUCTION OF BIRD MALARIA INFECTIONS BY THE INJECTION OF SPOROZOITES ... 198

HEGNER, ROBERT. PASSAGE OF *Trichomonas hominis* IN A VIABLE CONDITION THROUGH THE STOMACH AND SMALL INTESTINE OF A MONKEY ..... 199

HEGNER, ROBERT. TRANSMISSION OF *Endamoeba histolytica* IN DRINKING WATER ..... 199

PROCEEDINGS OF THE HELMINTHOLOGICAL SOCIETY OF WASHINGTON ..... 199

PUBLICATION OF RESEARCH NOTES IN THE JOURNAL OF PARASITOLOGY ..... 200

## JUNE, 1934, NUMBER 4.

FRIEDRICH FÜLLEBORN ..... Frontispiece

STUNKARD, H. W. FRIEDRICH FÜLLEBORN ..... 203

ANDERSON, MARLOWE G. THE VALIDITY OF *Taenia confusa* WARD, 1896 .... 207

DUNN, LAWRENCE H. PREVALENCE AND IMPORTANCE OF THE TROPICAL WARBLE FLY, *Dermatobia hominis* LINN., IN PANAMA ..... 219

DUNN, LAWRENCE H. NOTES ON THE OCCURRENCE OF *Gigantorhynchus echinodiscus* DIESING IN THE ANTEATER OF PANAMA ..... 227

MAYHEW, ROY L. STUDIES OF COCCIDIOSIS. V. TREATMENT WITH POWDERED BUTTERMILK ..... 230

JELLISON, WM. L. THE PARASITISM OF LIZARDS BY *Ixodes ricinus californicus* ..... 243

CROSS, SAMUEL X. A PROBABLE CASE OF NON-SPECIFIC IMMUNITY BETWEEN TWO PARASITES OF CISCOES OF THE TROUT LAKE REGION OF NORTHERN WISCONSIN ..... 244

OTTO, G. F. AND W. W. CORT. FURTHER STUDIES ON POST-TREATMENT REINFECTION WITH ASCARIS IN THE UNITED STATES ..... 245

HEGNER, ROBERT. INFECTIONS OF THE VAGINA OF RHESUS MONKEYS WITH *Trichomonas hominis* FROM MAN ..... 247

MCMULLEN, DONALD B. THE LIFE CYCLE OF THE TURTLE TREMATODE, *Cercorhis medius* ..... 248

LOEWEN, S. L. THE OCCURRENCE OF A DISTOME METACERCARIA IN A BROWN RAT ..... 250

YAKIMOFF, W. L. AND W. F. GOUSSEFF. COCCIDIA OF MARTENS AND SABLES. 251

KINGSCOTE, A. A. *Eimeria mustelae*, N. SP. FROM *Mustela vison* ..... 252

ANDREWS, JUSTIN. THE DIAGNOSIS OF INTESTINAL PROTOZOA FROM PURGED AND NORMALLY-PASSED STOOLS ..... 253

AMERICAN SOCIETY OF PARASITOLOGISTS. NINTH ANNUAL MEETING. BOSTON MASS., DEC. 28–30, 1933 ..... 255

## SEPTEMBER, 1934, NUMBER 5.

NIGRELLI, ROSS F. AND CHARLES M. BREDER, JR. THE SUSCEPTIBILITY AND IMMUNITY OF CERTAIN MARINE FISHES TO *Epibdella melleni*, A MONOGENETIC TREMATODE ..... 259

MESERVE, F. G. A NEW GENUS AND SPECIES OF PARASITIC TURBELLARIA FROM A BERMUDA SEA CUCUMBER ..... 270

Crooks, Kenneth B. M. Cross-infection Experiments on Parasite-free Chicks with Intestinal Coccidia from the Rabbit ..... 277

Bequaert, J. and H. A. Pilsbry. The Molluscan Intermediate Host of the Blood Fluke, *Schistosoma japonicum* Katsurada in the Philippines. With a Note on the Genus Blanfordia ..... 280

Thomas, Lyell J. *Cercaria sphaerula* n. sp. from *Helisoma trivolvis* Infecting Cyclops ..... 285

Thomas, Lyell J. Further Studies on the Life Cycle of a Frog Tapeworm *Ophiotaenia saphena* Osler ..... 291

Hopkins, Sewell H. Studies on Crepidostomum. III. *Crepidostomum brevivitellum* n. sp. ..... 295

Hoskins, Meredith. An Attempt to Transmit Yellow Fever Virus by Dog Fleas (*Ctenocephalides canis* Curt) and Flies (*Stomoxys calcitrans* Linn.) ..... 299

Wilson, F. H. The Life-cycle and Bionomics of *Lipeurus heterographus* Nitzsch ..... 304

Dunn, Lawrence H. Ticks from Tapirs of Panama ..... 312

Chandler, E. R. *Unionicola aculeata* (Koenike) in Snails in North Carolina ..... 312

Eaton, Paul. *Piroplasma canis* in Florida ..... 312

Swezey, W. W. and F. O. Atchley. Ingestion of Eggs and Larvae of *Strongyloides* by Intestinal Ciliates ..... 313

Swales, W. E. *Rhabdometra odiosa* (Leidy, 1887) Jones, 1929, a Cestode Parasite of *Pedioecetes phasianellus* in Quebec ..... 313

Harwood, Paul D. An Anomalous *Ascaris lumbricoides* from Swine .. 314

Root, Francis M. Abnormal Parabasal Spines in the Male Hypopygium of *Anopheles pseudopunctipennis* ..... 315

Rozeboom, L. E. A New Nycteribiid from Florida ..... 315

American Society of Parasitologists, Announcements ..... 317

Journal of Parasitology. Announcement of Change in Subscription Price and Time of Publication ..... 318

## DECEMBER, 1934, NUMBER 6.

Program and Abstracts of the Tenth Annual Meeting of the American Society of Parasitologists ..... 319

In Memoriam.
Francis Metcalf Root ..... 342
Bailey Kelly Ashford ..... 343

List of Members of the American Society of Parasitologists ..... 345

Index ..... 363